A first aspect of the present invention is a wireless communication system, comprising:

a first wireless communication unit including first wireless communication means that performs wireless data communication, first wired communication means that performs wired data communication to establish a wireless link for performing said wireless data communication using a wired connection, and first change-over means that changes over whether said wireless data communication should be performed using said first wireless communication means or said wired data communication should be performed using said first wired communication means; and

a second wireless communication unit including second wireless communication means that performs said wireless data communication with said first wireless communication means, second wired communication means that performs said wired data communication with said first wired communication means using said wired connection, and second change-over means that changes over whether said wireless data communication should be performed using said second wireless communication means or said wired data communication should be performed using said second wired communication means.

A second aspect of the present invention is the wireless communication system according to the first aspect of the present invention, wherein said first wireless communication

CLAIMS

1. A wireless communication system, comprising:

a first wireless communication unit including first wireless communication means that performs wireless data communication, first wired communication means that performs wired data communication to establish a wireless link for performing said wireless data communication using a wired connection, and first change-over means that changes over whether said wireless data communication should be performed using said first wireless communication means or said wired data communication should be performed using said first wired communication means; and

a second wireless communication unit including second wireless communication means that performs said wireless data communication with said first wireless communication means, second wired communication means that performs said wired data communication with said first wired communication means using said wired connection, and second change-over means that changes over whether said wireless data communication should be performed using said second wireless communication means or said wired data communication should be performed using said second wired communication means.

2. The wireless communication system according to claim 1, wherein said first wireless communication unit further

includes first wired connection detecting means that detects whether or not said wired connection is being performed between said first wired communication means and said second wired communication means;

when said first wired connection detecting means detects that said wired connection is being performed, said first change-over means changes over so that said wired data communication is performed, and using the wired connection detected by said first detecting means, gives a change-over instruction to said second change-over means to change over so that said wired data communication is performed;

said second change-over means changes over, based on the change-over instruction given by said first change-over means, so that said wired data communication is performed.

3. The wireless communication system according to claim 2, wherein said first wireless communication unit further includes a first signal level adjusting means that, when said first wired connection detecting means detects that said wired connection is being performed, adjusts a signal level so that said wired data communication is performed using a signal level smaller than the signal level necessary for said wireless data communication.